

SECTION B — ( $5 \times 5 = 25$  marks)

Answer ALL the questions.

11. (a) Comment on Mast cells.

Or

- (b) Give an account of Lymphocytes.

12. (a) Give concise note on Classical Complement Pathway.

Or

- (b) Explain the structure of TCR with diagram.

13. (a) Describe about Adjuvants and their functions.

Or

- (b) Explain the principle and method of RIA. What are their uses?

14. (a) Write a note on Chemical composition of chromosome.

Or

- (b) Give an illustrated account of differences in Eucaryotic and Prokaryotic mRNA.

15. (a) Describe brief note on Specialized Transduction Mechanism.

Or

- (b) What are Transposable Elements ? Explain the Mechanism of Transposition in IS elements.

SECTION C — ( $3 \times 10 = 30$  marks)

Answer any THREE questions.

16. Write an essay on Acquired Immunity.

17. Discuss in detail about Monoclonal Antibody Production.

18. Define and classify Hypersensitivity reactions. Add a note on Anaphylactic reactions.

19. Explain the Methylation processes.

20. Give an elaborate account on Mechanism of Transformation.





NOVEMBER/DECEMBER 2023


**23PMB12 — IMMUNOLOGY, IMMUNOMICS  
AND MICROBIAL GENETICS**

Time : Three hours

Maximum : 75 marks

**SECTION A — (10 × 2 = 20 marks)**

Answer ALL questions.

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1. Define Immunology.
  2. What is Hematopoiesis?
  3. Define Antibody.
  4. Who coined the term Complement?
  5. What is Agglutinin?
  6. Define Autoimmunity.
  7. Define Prokaryote.
  8. Define Genetics.
  9. Define Horizontal Gene Transfer.
  10. Who coined the term Gene?